HONORABLE JOHN C. COUGHENOUR

UNITED STATES DISTRICT COURT
WESTERN DISTRICT OF WASHINGTON
AT SEATTLE

WILD FISH CONSERVANCY, Plaintiff, v. COOKE AQUACULTURE PACIFIC, LLC, Defendant.	Case No. 2:17-cv-01708-JCC FIRST DECLARATION OF JAMES PARSONS IN OPPOSITION TO PLAINTIFF'S FIRST MOTION FOR PARTIAL SUMMARY JUDGMENT NOTE ON MOTION CALENDAR: March 15, 2019

I, James Parsons, declare as follows:

1. I am currently general manager of Cooke Aquaculture Pacific, LLC ("Cooke"). In that role I oversee all of Cooke's Atlantic Salmon farming operations in the State of Washington. I have held this position since September 2018. I am over the age of 18, make this declaration based upon my personal knowledge, and I am competent to testify as to the matters herein.

My Background in Aquaculture

2. I have worked continuously in the field of finfish aquaculture for approximately 40 years. Since 2016, I have served as the President of the National Aquaculture Association,

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the leading non-profit organization that supports the establishment of governmental programs that further the interests of aquaculture.

3. In 1979 I received a Bachelor of Science in fisheries from Humboldt State University. From 1979 to 1982 I worked as an aquaculture biologist for Weyerhaeuser. In 1982 I returned to school and in 1984 received a Master of Science degree in genetics from Washington State University. From 1984 to 1992, I worked as a research geneticist for Clear Springs Trout, a company focused on raising trout. From 1992 to 1998, I worked as the Director of Research and Development for Blue Lakes Trout, another trout farming company. From 1998 to 2017, I worked as executive vice president for Troutlodge, Inc., which is the global leader in the production of viable trout eggs for hatchery use. From October 2017 to September 2018 I worked as Aquaculture Operations Manager for the Jamestown S'Klallam Tribe.

4. On February 28 and March 1, 2019, I sat as Cooke's designated Rule 30(b)(6) witness in this litigation. To prepare for that deposition, I traveled to all of Cooke's aquaculture facilities (those that are operating and those that are closed) and further familiarized myself with each facility's operation. I am regularly at these facilities, but these trips were for the specific purpose of learning how Cooke and its predecessors operated these sites from 2012 through 2017. In addition to my in-person fact finding, I spent seven days in the offices of Northwest Resource Law, PLLC, reviewing documents related to the historic operations of Cooke's facilities. Where questions as to historic operations arose, I spoke with longtime company employees to get answers. In addition to spending seven days in the law offices of Northwest Resource Law, PLLC, I spent many hours alone reviewing thousands of pages of documents in preparation for that deposition. I base my testimony below on this exhaustive review of company records, my 40 years of finfish aquaculture experience, as well as my own efforts to fully familiarize myself with all Cooke operations since taking over the position of general manager.

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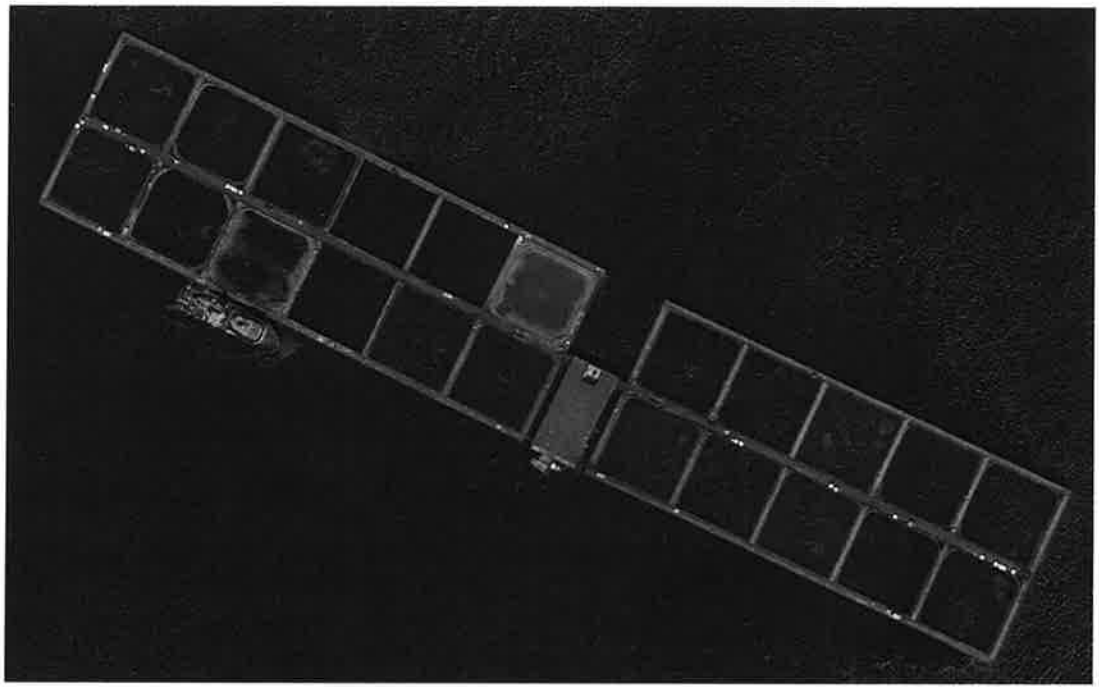
General Description of Cooke's Net-pens

5. Cooke is in the business of Atlantic Salmon net-pen aquaculture. Historically, the company operated eight Atlantic Salmon net-pen facilities in Puget Sound. A net-pen facility is a widely used and relatively simple aquaculture facility. As laid out, Cooke's farms have a shape similar to an ice cube tray. The picture below is an aerial image of Cooke's Clam Bay facility, which illustrates this and represents the general design of the other facilities.



6. Each net-pen facility has four main components: a floating walkway system, a protective "predator net," fish-containing "stock nets," and a mooring system. As can be seen from the picture above, the walkway system forms a grid of squares ("pens") like the top of the ice cube tray. The stock nets then descend from the pens below the water line to create areas that contain the fish. The stock nets are made of small enough mesh to let water and dissolved oxygen pass through but keep fish inside. The predator net forms the outer area of the pen system, descending out through the water from the square. The predator net surrounds and descends to a depth below the stock nets so that it fully encloses the stock net. The predator net has much larger mesh and is held in place and away from the stock nets by a pipe frame. The

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predator net protects the stock nets from seals, sea lions, and floating debris. The mooring system consists of shackles, chains, ropes, and anchors that connect to the walkway system and hold the farm in place.

7. Net-pen facilities are widely used across the globe, and their maintenance and operation are the subject of global standards utilized by Cooke. Under these standards, the entire farm is designed to be able to flex with waves and currents. Thus, the walkway system is not a rigid system, but a series of pieces connected by joints or hinges to ensure that the facility can handle wave action and current loads.

Cypress Site 2 Collapse and Termination of Atlantic Salmon Net-Pen Farms

8. Before I joined Cooke, the company operated a net-pen facility known as Cypress Site 2. Cypress Site 2 was completely destroyed during a collapse event in August 2017. The remains of Site 2 were removed in a massive salvage effort following that collapse. Today, there is nothing at Cypress Site 2 – no walkways, pens, nets, anchor systems, or any remaining debris from the collapse that occurred in August 2017.

9. Cooke has no intention of rebuilding Cypress Site 2. Even if Cooke wanted to rebuild Cypress Site 2, it could never legally accomplish that goal. Each net-pen facility requires an aquatic lease from the Washington State Department of Natural Resources ("DNR"), because the net-pens are situated over and anchored to state-owned aquatic lands that are managed by DNR. DNR has terminated Cooke's lease for Cypress Site 2. Rebuilding Cypress Site 2 would also require a series of permits, including a shoreline permit from Skagit County, and approvals from the U.S. Army Corps of Engineers, which are not possible to obtain given DNR's termination of the Site 2 lease. Moreover, in 2018, the Washington State Legislature passed HB 2957, which strictly prohibits DNR from ever again issuing, renewing, or extending a lease for Atlantic Salmon aquaculture. HB 2957 also prohibits the Washington State Department of Ecology ("Ecology") and Washington State Department of Fish and Wildlife ("WDFW") from issuing any permits for Atlantic Salmon aquaculture to any facility that did not have an active

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lease as of the date the bill became law. Effectively, the prohibition of DNR renewing, issuing, or extending leases for Atlantic Salmon aquaculture and this prohibition on Ecology and WDFW issuing permits phases out Atlantic Salmon aquaculture in Washington over the next few years.

10. DNR has also terminated leases for three of Cooke's other net-pen facilities (Cypress Sites 1 and 3 and Port Angeles). The remaining four facilities are on phase-out schedules and are winding down their production of Atlantic Salmon in light of HB 2957, because DNR is not authorized to issue, renew, or extend those leases if the sites are used for Atlantic Salmon aquaculture. After many decades of operation at their present locations, there is legally no path forward for Atlantic Salmon aquaculture in the state of Washington.

11. In light of the legal impossibility of rebuilding Site 2, in December, Cooke requested that Ecology terminate the National Pollution Discharge Elimination System ("NPDES") permit for Cypress Site 2. Ecology has received Cooke's final letter terminating the NPDES permit but has not yet issued its final termination because Cooke is completing the site closure monitoring that is required.

Changes Following Cypress Site 2 Collapse

12. The backbone of Cooke's maintenance and inspection program has always been its employees. From their first day on the job, employees are taught to take pride in their facility and to ensure that it is always in "ship shape." Many of Cooke's employees have made a life-long career working at the farms and take great pride in a job well done and a facility well maintained. As any good employee would do, they learn to recognize when something is wrong or out of place. They become constantly vigilant and respond to maintenance needs immediately. While there are many layers of formalized inspections, Cooke's most important maintenance tool is ensuring that its employees are identifying and addressing concerns in real time.

13. Following the Cypress Site 2 collapse, Cooke implemented and updated various procedures at its remaining farms to ensure that the Site 2 collapse could not occur at those farms. One action taken by Cooke was to update its Pollution Prevention Plan in October 2017,

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to ensure that Cooke was creating and maintaining complete records of the many maintenance and inspection activities that it conducts at its farms.

14. As part of my role as General Manager, and in preparation for the recent 30(b)(6) deposition, I have spent a substantial amount of time on Cooke's implementation of and compliance with the October 2017 Pollution Prevention Plan (and Cooke's permits). I have also spent a significant amount of time learning about how Cooke historically complied with its previous pollution prevention plans that are required under its NPDES permits. Cooke has followed the same general maintenance and inspection procedures both before and after the October 2017 Plan was put into place. There are, however, two major differences between the October 2017 Plan and the prior plan. First, the October 2017 Plan requires Cooke to complete two new inspection forms to track its inspections. Those same inspections were occurring before the October 2017 Plan, and were and are being tracked in each site's daily logs, dive logs, weekly reports, monthly safety audits and compliance checklists, and various other forms. They are now also recorded in the two new forms. Second, the October 2017 Plan made one change in how inspections of anchors below 100 feet of water occur. Specifically, the Plan now requires that a contract diver or ROV (remotely operated vehicle) conduct a "visual inspection" of mooring components that are below 100 feet of water. In the past, Cooke inspected these anchors using on-site, in-house dive teams. Cooke also inspected anchors by pulling them to the surface with vessels and by analyzing anchor lines, which will show very easily whether there is a below surface issue. Almost all below water mooring components were visually inspected by divers on approximately twice per year, even those below 100 feet. There was a single site (Port Angeles) where, because of the significant depth of the water, Cooke could not visually inspect the anchors as they were situated on the bottom using on-site divers. Thus, for those anchors Cooke conducted inspections of the anchor system's functionality, consistent with the NPDES permit, which identifies certain components that require visual inspections and others that do not require visual inspections. Anchors do not require visual inspections, and there are numerous

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reasons why Ecology would not include such a requirement, including the fact that the anchors themselves often need to be buried in sediment to function properly, and pulling them annually for inspections would result in disturbing the normal function of the anchors. Despite no such requirement, Cooke incorporated the contract diver/ROV visual inspection requirement in its October 2017 Plan to alleviate any question about the condition of mooring lines and anchors, if visible, at significant depth.

15. Several other changes resulted from the Cypress Site 2 event. As part of a collaborative regulatory action, DNR and Ecology have implemented a weekly net condition reporting program. This program requires Cooke to submit weekly reports to DNR, including video footage of all its nets to allow the regulators to inspect their condition. Each net is also "graded" on cleanliness to ensure proper maintenance is occurring. This grading system was utilized by Cooke prior to the 2017 Cypress Site 2 event, but no formal reporting was required by the agencies. DNR also now requests that Cooke submit a confirmation video showing the condition of 2-4 nets, randomly selected by DNR, every month during the summer and every other month during the winter. In addition, DNR hired a marine engineer to inspect all Cooke facilities, and Cooke worked cooperatively with DNR on those inspections and addressed any issues identified by that marine engineer. And, as Cooke restocks its facilities, it is using newly-gathered current data to re-engineer its mooring systems to ensure they are up to the latest ISO standard for such facilities.

How Cooke Tracks Fish

16. One of the most important things to a commercial fish farmer is maintaining an accurate fish inventory. Tracking fish inventory allows a farmer to project profits and market fish in advance of a final piece-count (i.e., how many fillets you can actually promise to sell to a buyer). It also allows farmers to generate detailed data that allows them to make projections about typical site mortality to ensure that a proper stocking regime is put in place to minimize food wastage, maximize efficient of production of the farms, or to make site adjustments to

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address those conditions. It also allows farmers to make projections about future feed investments and track how fish weights and mortality respond to adverse environmental conditions. Inventories also allow for the identification of fish escapes or predation, which cut into profit and expose companies to crushing environmental liabilities in addition to social and political backlash.

17. There are many hundreds of Atlantic salmon fish farms across the globe. They are commonplace in Maine, British Columbia, Chile, Scotland, New Brunswick, Norway, Nova Scotia, New Zealand, and many other places. To survive in today's competitive fish farming environment, a company must have a detailed and accurate fish accounting database. Cooke uses a state-of-the-art program called FishTalk to track its fish inventory.

18. To explain how FishTalk tracks Cooke's fish inventory, we have included excerpts of FishTalk reports in **Exhibit 1**. These reports are for our Hope Island site and describe a snapshot of information (from December 28, 2015 through January 31, 2016) to illustrate for the Court what information is collected, recorded, and maintained. The excerpts included as Exhibit 1 were produced in this case pursuant to the protective order because they constitute confidential proprietary business information about Cooke's tracking, monitoring, categorizing, and growing fish. They were Bates numbered COOKE_CWA_00189282. Because they contain confidential proprietary business information, the public version of these exhibits is redacted to protect that information. I have executed a separate declaration to be filed under seal with unredacted versions of this excerpt.

19. As you can see in Exhibit 1, the data is generally organized by each pen (called "Unit" with an identifying number at a site – Hope Island had 10 pens which correspond to Units 1 through 10). Each pen at each site has its own data set. For each actual day (identified as "Closing Date"), extensive data is then recorded. The "opening count" provides the number of fish in the pen on that date, which is the total of fish that were stocked in that cage when fish were first introduced minus prior subtractions for fish lost from that pen, through harvest,

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mortality, or escape. (There are other columns for fish loss due to transfer or other circumstances; because Cooke does not generally transfer fish from one pen to another, this field is not used but does appear in the report.) Then, the day's loss of fish or addition of fish are recorded: the number of fish mortality is tracked, including by suspected cause of mortality (for instance, due to predators, disease, or low dissolved oxygen) and the number of fish escapes is tracked. If fish are added to a pen, that is also recorded. The opening count minus the fish lost (usually from mortality) and plus the fish gained (rare) leads to the closing count. (Other information, such as water temperature and dissolved oxygen levels, are also recorded.) The "closing count" for a day then becomes the "opening count" for the next day. The process is repeated each day for each pen at each farm until the fish are harvested.

20. FishTalk tracks fish inventory from arrival at a farm until harvest. Each individual pen is stocked with a specific number of smolts (juvenile salmon), which are counted using automatic scanners at the upland hatchery facility. This input number is entered into FishTalk. While the fish are being raised, Cooke sends divers into each pen three or more days a week to remove mortalities that sink to the bottom of the pens. When brought to the surface, Cooke staff determine why each individual fish died. Causes of death are of many types and include mechanical damage (i.e., tides push a weak fish into the nets where it drowns); algae blooms that suffocate the fish by depleting oxygen in the cages; predator hits (i.e., a seal or sea lion swipes at a fish resting against the side of the stock net, wounding the fish and causing its death); and various diseases. Cooke staff record the cause of death of each fish, record it in FishTalk, and take necessary actions to reduce mortality.

21. Predation loss is a term of art in fish farming, and generally describes the number of mortalities that are caused by predators. As described above, each facility has a sturdy, large mesh predator net that surrounds and protects a smaller mesh stock net. The fish are in the stock net. Occasionally, a seal or sea lion will enter the predator net. Once inside, they can be easily and immediately seen by staff under the floating walkways, either because they must surface for

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air or because of the reaction of the fish in the nets to a nearby predator. If a predator "is in the system" or "enters the net," (i.e., is inside the predator net system) staff work to ensure the safe exit of the animal and begin to immediately search for the cause of the entry by the predator, which may include a breach of the predator net. When a predator enters the predator net, it can impact mortality in two ways. First, some fish rest or swim very close to the stock net; in such a case the predator may swipe or bite the fish through the net, wounding the fish and resulting in its death. Second, the predator can swim to the bottom of the net and attempt to chew on mortalities that sink to the bottom of the stock net. As one would imagine, seals and sea lions swimming around the stock nets cause panic amongst the fish. Fish do not grow well under stress. Thus, not only do Cooke's employees look for seals and sea lions that end up inside the predator net, but they also watch the fish to see if they are acting in a manner that suggests predation stress. Cooke can do this both by surface observation, including observing the fish during their daily feedings, but also by utilizing underwater video cameras that are installed in the cages and routinely monitored.

22. Predation presents a major risk to the viability of any farm. As a result, Cooke tracks even the threat of predation in great detail. If seals or sea lions are spotted, their presence is noted in the daily log. If they enter the predator net, that action is noted in the daily log. If they harm a fish, that mortality is logged into Fishtalk and also included in reports sent weekly throughout the company.

23. We have included in **Exhibit 2** the set of weekly reports that correspond to the FishTalk excerpts in Exhibit 1 and are themselves reports that are run from FishTalk. (As the Court can see, on a weekly basis, each farm tracks and circulates throughout the company a "weekly production report," which describes the key weekly metrics for that site, including the number and cause of mortalities, feeding efficiency, environmental factors such as temperature, oxygen levels, and notes about what is generally occurring on the farms, such as "minor predation issues in pen 10 at the beginning of the week, which we resolved immediately" or "fish

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are doing very well after doing maitenance [sic] on the pred and rearing [stock] nets.") As the Court can see from just these few reports, Cooke keeps precise track of every factor that can impact the farm, including mortality, feeding, fish weight, maintenance, and predation.

24. The excerpts included as Exhibit 2 were produced in this case pursuant to the protective order because they constitute confidential proprietary business information about Cooke's tracking, monitoring, categorizing, and growing fish. They were Bates numbered COOKE_CWA_00174047, 00173994, 00174107, 00174049, and 00187166. Because these excerpts contain confidential proprietary business information, the public version of these exhibits are redacted to protect that information. I have executed a separate declaration to be filed under seal with unredacted versions of this excerpt.

25. FishTalk also allows Cooke to track and record fish escapes and detect any escapes at the end of a production cycle (when the fish are harvested). At the end of each cycle, Cooke compares its input, mortality, and final harvest numbers. These numbers should line up, within the mechanical deviation or inherent error from the highspeed scanners which count the fish as they leave the hatchery. When the smolts (which are only several inches) are introduced into the pens at the beginning of the production cycle, they are vacuumed up by the hundreds of thousands and counted by a highspeed scanner, then placed in trucks, transferred to boats, and then placed in the pens. That scanner has a margin of error identified by its manufacturer. Aquaculturists globally have always tracked releases by ensuring that fish-in minus fish-out falls within the hatchery scanners margin of error. Absent large escapes like what occurred at Cypress Site 2, Cooke has always met this standard, which means it does not have fish escapes from its sites.

26. FishTalk is a good way to "check work," but escape detection and prevention is also (and best) achieved in real time on the farm sites. The best way to detect an escape is through visual observation of the fish and the nets. Staff continuously watch the fish to see if they are behaving strangely, if cage density is unexpectantly falling, or if feed is being left

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uneaten. When you work on a fish farm, you learn to understand what is and what is not normal fish behavior, what a full pen looks like, and how much feed you should be able to feed a pen of fish. Additionally, divers are in the water at least three days a week inspecting each cage for mortalities and holes. If a hole were ever to develop in the stock net, it would be immediately identified. Additionally, net cleaners are constantly working on ensuring stock nets are clean. These cleaners would also identify any escape holes.

27. The waters surrounding Cooke's facilities are some of the most studied in the world with respect to wild salmon production. What this means is that many fisheries biologists, including state, federal and university scientists, as wells as tribal and commercial fishers, are constantly monitoring the marine and fresh waters surrounding Cooke's facilities for presence of all species of salmon. If there were regular, small escapes of fish from Cooke's facilities, those would be detected by these individuals, who are also in close contact with Cooke. Cooke is required by WDFW to heat-shock its fish to mark the otolith (the ear bone of the fish) which creates a unique identifier of Cooke's fish. So, if an Atlantic Salmon was recovered from the wild, there are procedures to examine that fish to determine whether it was from one of Cooke's facilities, and not, for example, from the numerous Atlantic Salmon farms to the north in Canada. Except for the Site 2 collapse and escape in August 2017, Cooke has not received any reports of its fish being captured and identified since at least 2010.

MS222 Is Not a "Disease Control Chemical"

28. I have been informed that WFC has made allegations that Cooke has utilized MS222 as a disease control chemical. I have worked in finfish aquaculture for approximately 40 years. MS222 is an extremely widely used chemical in the industry. It is not a "disease control chemical." It has no disease fighting or preventing characteristics. It is used to "knock out" a fish that is to be handled. As anyone who has gone fishing can attest, it is very difficult to safely handle a fish that is violently flopping around. MS222 knocks the fish out and allows safe handling for tasks such as weighing or measuring the fish to update the site inventory.

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Sworn to under penalty of perjury of the laws of Louisiana, at New Orleans, Louisiana, this 9th day of March, 2019.

James Parsons

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Exhibit 1

	Year class	Site	Closing Date	Opening Count	Closing Count	Transfer in count in period	Transfer out count in period	Deviation count in period	Deviation percent in period	Harvested count (incl discards) in period	Gross harvested biomass, incl. discards [lb] in period	Gross harvested average weight [lb] in period	Culling count in period	Mortality count in period	Mortality count Transport in period	Mortality count Predator in period	Mortality count Disease - Yellow Mouth in period	Mortality count Unspecified in period	Mortality count Pinheads in period	Mortality count Disease - Vibriosis in period
Unit: 01	2015	Hope Island	28-Dec-15																	
	2015	Hope Island	29-Dec-15																	
	2015	Hope Island	30-Dec-15																	
	2015	Hope Island	31-Dec-15																	
	2015	Hope Island	01-Jan-16																	
	2015	Hope Island	02-Jan-16																	
	2015	Hope Island	03-Jan-16																	
	2015	Hope Island	04-Jan-16																	
	2015	Hope Island	05-Jan-16																	
	2015	Hope Island	06-Jan-16																	
	2015	Hope Island	07-Jan-16																	
	2015	Hope Island	08-Jan-16																	
	2015	Hope Island	09-Jan-16																	
	2015	Hope Island	10-Jan-16																	
	2015	Hope Island	11-Jan-16																	
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	2015	Hope Island	31-Jan-16																	

Mortality count Deformed in period	Mortality count Grilse in period	Mortality count Mechanical Damage in period	Mortality count Disease - SRS (Salmon Rickettsial Septicaemia) in period	Mortality count Samples in period	Mortality count Low DO in period	Mortality count Disease - Furunculosis in period	Mortality count Gill Damage in period	Mortality count Grading Damage in period	Mortality count Disease - BKD (Bacterial Kidney Disease) in period	Temperature (all depths) Avg [°C] in period	Oxygen (all depths) Avg [mg/l] in period	Escape count in period
[redacted]												

	Year class	Site	Closing Date	Opening Count	Closing Count	Transfer in count in period	Transfer out count in period	Deviation count in period	Deviation percent in period	Harvested count (incl discards) in period	Gross harvested biomass, incl. discards [lb] in period	Gross harvested average weight [lb] in period	Culling count in period	Mortality count in period	Mortality count Transport in period	Mortality count Predator in period
Unit: 02	2015	Hope Island	28-Dec-15													
	2015	Hope Island	29-Dec-15													
	2015	Hope Island	30-Dec-15													
	2015	Hope Island	31-Dec-15													
	2015	Hope Island	01-Jan-16													
	2015	Hope Island	02-Jan-16													
	2015	Hope Island	03-Jan-16													
	2015	Hope Island	04-Jan-16													
	2015	Hope Island	05-Jan-16													
	2015	Hope Island	06-Jan-16													
	2015	Hope Island	07-Jan-16													
	2015	Hope Island	08-Jan-16													
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	2015	Hope Island	29-Jan-16													
	2015	Hope Island	30-Jan-16													
	2015	Hope Island	31-Jan-16													

Mortality count Disease - Yellow Mouth in period	Mortality count Unspecified in period	Mortality count Pinheads in period	Mortality count Disease - Vibriosis in period	Mortality count Deformed in period	Mortality count Grilse in period	Mortality count Mechanical Damage in period	Mortality count Disease - SRS (Salmon Rickettsial Septicaemia) in period	Mortality count Samples in period	Mortality count Low DO in period	Mortality count Disease - Furunculosis in period	Mortality count Gill Damage in period	Mortality count Grading Damage in period	Mortality count Disease - BKD (Bacterial Kidney Disease) in period	Temperature (all depths) Avg [°C] in period	Oxygen (all depths) Avg [mg/l] in period	Escape count in period
[redacted]																

	Year class	Site	Closing Date	Opening Count	Closing Count	Transfer in count in period	Transfer out count in period	Deviation count in period	Deviation percent in period	Harvested count (incl discards) in period	Gross harvested biomass, incl. discards [lb] in period	Gross harvested average weight [lb] in period	Culling count in period	Mortality count in period	Mortality count Transport in period	Mortality count Predator in period
Unit: 03	2015	Hope Island	28-Dec-15	[redacted]												
	2015	Hope Island	29-Dec-15													
	2015	Hope Island	30-Dec-15													
	2015	Hope Island	31-Dec-15													
	2015	Hope Island	01-Jan-16													
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	2015	Hope Island	04-Jan-16													
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	2015	Hope Island	22-Jan-16													
	2015	Hope Island	23-Jan-16													
	2015	Hope Island	24-Jan-16													
	2015	Hope Island	25-Jan-16													
	2015	Hope Island	26-Jan-16													
	2015	Hope Island	27-Jan-16													
	2015	Hope Island	28-Jan-16													
	2015	Hope Island	29-Jan-16													
	2015	Hope Island	30-Jan-16													
	2015	Hope Island	31-Jan-16													

Mortality count Disease - Yellow Mouth in period	Mortality count Unspecified in period	Mortality count Pinheads in period	Mortality count Disease - Vibriosis in period	Mortality count Deformed in period	Mortality count Grilse in period	Mortality count Mechanical Damage in period	Mortality count Disease - SRS (Salmon Rickettsial Septicaemia) in period	Mortality count Samples in period	Mortality count Low DO in period	Mortality count Disease - Furunculosis in period	Mortality count Gill Damage in period	Mortality count Grading Damage in period	Mortality count Disease - BKD (Bacterial Kidney Disease) in period	Temperature (all depths) Avg [°C] in period	Oxygen (all depths) Avg [mg/l] in period	Escape count in period
[redacted]																

	Year class	Site	Closing Date	Opening Count	Closing Count	Transfer in count in period	Transfer out count in period	Deviation count in period	Deviation percent in period	Harvested count (incl discards) in period	Gross harvested biomass, incl. discards [lb] in period	Gross harvested average weight [lb] in period	Culling count in period	Mortality count in period	Mortality count Transport in period	Mortality count Predator in period
Unit: 04	2015	Hope Island	28-Dec-15	[redacted]												
	2015	Hope Island	29-Dec-15													
	2015	Hope Island	30-Dec-15													
	2015	Hope Island	31-Dec-15													
	2015	Hope Island	01-Jan-16													
	2015	Hope Island	02-Jan-16													
	2015	Hope Island	03-Jan-16													
	2015	Hope Island	04-Jan-16													
	2015	Hope Island	05-Jan-16													
	2015	Hope Island	06-Jan-16													
	2015	Hope Island	07-Jan-16													
	2015	Hope Island	08-Jan-16													
	2015	Hope Island	09-Jan-16													
	2015	Hope Island	10-Jan-16													
	2015	Hope Island	11-Jan-16													
	2015	Hope Island	12-Jan-16													
	2015	Hope Island	13-Jan-16													
	2015	Hope Island	14-Jan-16													
	2015	Hope Island	15-Jan-16													
	2015	Hope Island	16-Jan-16													
	2015	Hope Island	17-Jan-16													
	2015	Hope Island	18-Jan-16													
	2015	Hope Island	19-Jan-16													
	2015	Hope Island	20-Jan-16													
	2015	Hope Island	21-Jan-16													
	2015	Hope Island	22-Jan-16													
	2015	Hope Island	23-Jan-16													
	2015	Hope Island	24-Jan-16													
	2015	Hope Island	25-Jan-16													
	2015	Hope Island	26-Jan-16													
	2015	Hope Island	27-Jan-16													
	2015	Hope Island	28-Jan-16													
	2015	Hope Island	29-Jan-16													
	2015	Hope Island	30-Jan-16													
	2015	Hope Island	31-Jan-16													

Mortality count Disease - Yellow Mouth in period	Mortality count Unspecified in period	Mortality count Pinheads in period	Mortality count Disease - Vibriosis in period	Mortality count Deformed in period	Mortality count Grilse in period	Mortality count Mechanical Damage in period	Mortality count Disease - SRS (Salmon Rickettsial Septicaemia) in period	Mortality count Samples in period	Mortality count Low DO in period	Mortality count Disease - Furunculosis in period	Mortality count Gill Damage in period	Mortality count Grading Damage in period	Mortality count Disease - BKD (Bacterial Kidney Disease) in period	Temperature (all depths) Avg [°C] in period	Oxygen (all depths) Avg [mg/l] in period	Escape count in period
[redacted]																

	Year class	Site	Closing Date	Opening Count	Closing Count	Transfer in count in period	Transfer out count in period	Deviation count in period	Deviation percent in period	Harvested count (incl discards) in period	Gross harvested biomass, incl. discards [lb] in period	Gross harvested average weight [lb] in period	Culling count in period	Mortality count in period	Mortality count Transport in period	Mortality count Predator in period
Unit: 05	2015	Hope Island	28-Dec-15													
	2015	Hope Island	29-Dec-15													
	2015	Hope Island	30-Dec-15													
	2015	Hope Island	31-Dec-15													
	2015	Hope Island	01-Jan-16													
	2015	Hope Island	02-Jan-16													
	2015	Hope Island	03-Jan-16													
	2015	Hope Island	04-Jan-16													
	2015	Hope Island	05-Jan-16													
	2015	Hope Island	06-Jan-16													
	2015	Hope Island	07-Jan-16													
	2015	Hope Island	08-Jan-16													
	2015	Hope Island	09-Jan-16													
	2015	Hope Island	10-Jan-16													
	2015	Hope Island	11-Jan-16													
	2015	Hope Island	12-Jan-16													
	2015	Hope Island	13-Jan-16													
	2015	Hope Island	14-Jan-16													
	2015	Hope Island	15-Jan-16													
	2015	Hope Island	16-Jan-16													
	2015	Hope Island	17-Jan-16													
	2015	Hope Island	18-Jan-16													
	2015	Hope Island	19-Jan-16													
	2015	Hope Island	20-Jan-16													
	2015	Hope Island	21-Jan-16													
	2015	Hope Island	22-Jan-16													
	2015	Hope Island	23-Jan-16													
	2015	Hope Island	24-Jan-16													
	2015	Hope Island	25-Jan-16													
	2015	Hope Island	26-Jan-16													
	2015	Hope Island	27-Jan-16													
	2015	Hope Island	28-Jan-16													
	2015	Hope Island	29-Jan-16													
	2015	Hope Island	30-Jan-16													
	2015	Hope Island	31-Jan-16													

Mortality count Disease - Yellow Mouth in period	Mortality count Unspecified in period	Mortality count Pinheads in period	Mortality count Disease - Vibriosis in period	Mortality count Deformed in period	Mortality count Grilse in period	Mortality count Mechanical Damage in period	Mortality count Disease - SRS (Salmon Rickettsial Septicaemia) in period	Mortality count Samples in period	Mortality count Low DO in period	Mortality count Disease - Furunculosis in period	Mortality count Gill Damage in period	Mortality count Grading Damage in period	Mortality count Disease - BKD (Bacterial Kidney Disease) in period	Temperature (all depths) Avg [°C] in period	Oxygen (all depths) Avg [mg/l] in period	Escape count in period
[redacted]																

	Year class	Site	Closing Date	Opening Count	Closing Count	Transfer in count in period	Transfer out count in period	Deviation count in period	Deviation percent in period	Harvested count (incl discards) in period	Gross harvested biomass, incl. discards [lb] in period	Gross harvested average weight [lb] in period	Culling count in period	Mortality count in period	Mortality count Transport in period	Mortality count Predator in period
Unit: 06	2015	Hope Island	28-Dec-15													
	2015	Hope Island	29-Dec-15													
	2015	Hope Island	30-Dec-15													
	2015	Hope Island	31-Dec-15													
	2015	Hope Island	01-Jan-16													
	2015	Hope Island	02-Jan-16													
	2015	Hope Island	03-Jan-16													
	2015	Hope Island	04-Jan-16													
	2015	Hope Island	05-Jan-16													
	2015	Hope Island	06-Jan-16													
	2015	Hope Island	07-Jan-16													
	2015	Hope Island	08-Jan-16													
	2015	Hope Island	09-Jan-16													
	2015	Hope Island	10-Jan-16													
	2015	Hope Island	11-Jan-16													
	2015	Hope Island	12-Jan-16													
	2015	Hope Island	13-Jan-16													
	2015	Hope Island	14-Jan-16													
	2015	Hope Island	15-Jan-16													
	2015	Hope Island	16-Jan-16													
	2015	Hope Island	17-Jan-16													
	2015	Hope Island	18-Jan-16													
	2015	Hope Island	19-Jan-16													
	2015	Hope Island	20-Jan-16													
	2015	Hope Island	21-Jan-16													
	2015	Hope Island	22-Jan-16													
	2015	Hope Island	23-Jan-16													
	2015	Hope Island	24-Jan-16													
	2015	Hope Island	25-Jan-16													
	2015	Hope Island	26-Jan-16													
	2015	Hope Island	27-Jan-16													
	2015	Hope Island	28-Jan-16													
	2015	Hope Island	29-Jan-16													
	2015	Hope Island	30-Jan-16													
	2015	Hope Island	31-Jan-16													

Mortality count Disease - Yellow Mouth in period	Mortality count Unspecified in period	Mortality count Pinheads in period	Mortality count Disease - Vibriosis in period	Mortality count Deformed in period	Mortality count Grilse in period	Mortality count Mechanical Damage in period	Mortality count Disease - SRS (Salmon Rickettsial Septicaemia) in period	Mortality count Samples in period	Mortality count Low DO in period	Mortality count Disease - Furunculosis in period	Mortality count Gill Damage in period	Mortality count Grading Damage in period	Mortality count Disease - BKD (Bacterial Kidney Disease) in period	Temperature (all depths) Avg [°C] in period	Oxygen (all depths) Avg [mg/l] in period	Escape count in period
[redacted]																

	Year class	Site	Closing Date	Opening Count	Closing Count	Transfer in count in period	Transfer out count in period	Deviation count in period	Deviation percent in period	Harvested count (incl discards) in period	Gross harvested biomass, incl. discards [lb] in period	Gross harvested average weight [lb] in period	Culling count in period	Mortality count in period	Mortality count Transport in period	Mortality count Predator in period
Unit: 07	2015	Hope Island	28-Dec-15													
	2015	Hope Island	29-Dec-15													
	2015	Hope Island	30-Dec-15													
	2015	Hope Island	31-Dec-15													
	2015	Hope Island	01-Jan-16													
	2015	Hope Island	02-Jan-16													
	2015	Hope Island	03-Jan-16													
	2015	Hope Island	04-Jan-16													
	2015	Hope Island	05-Jan-16													
	2015	Hope Island	06-Jan-16													
	2015	Hope Island	07-Jan-16													
	2015	Hope Island	08-Jan-16													
	2015	Hope Island	09-Jan-16													
	2015	Hope Island	10-Jan-16													
	2015	Hope Island	11-Jan-16													
	2015	Hope Island	12-Jan-16													
	2015	Hope Island	13-Jan-16													
	2015	Hope Island	14-Jan-16													
	2015	Hope Island	15-Jan-16													
	2015	Hope Island	16-Jan-16													
	2015	Hope Island	17-Jan-16													
	2015	Hope Island	18-Jan-16													
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	2015	Hope Island	20-Jan-16													
	2015	Hope Island	21-Jan-16													
	2015	Hope Island	22-Jan-16													
	2015	Hope Island	23-Jan-16													
	2015	Hope Island	24-Jan-16													
	2015	Hope Island	25-Jan-16													
	2015	Hope Island	26-Jan-16													
	2015	Hope Island	27-Jan-16													
	2015	Hope Island	28-Jan-16													
	2015	Hope Island	29-Jan-16													
	2015	Hope Island	30-Jan-16													
	2015	Hope Island	31-Jan-16													

Mortality count Disease - Yellow Mouth in period	Mortality count Unspecified in period	Mortality count Pinheads in period	Mortality count Disease - Vibriosis in period	Mortality count Deformed in period	Mortality count Grilse in period	Mortality count Mechanical Damage in period	Mortality count Disease - SRS (Salmon Rickettsial Septicaemia) in period	Mortality count Samples in period	Mortality count Low DO in period	Mortality count Disease - Furunculosis in period	Mortality count Gill Damage in period	Mortality count Grading Damage in period	Mortality count Disease - BKD (Bacterial Kidney Disease) in period	Temperature (all depths) Avg [°C] in period	Oxygen (all depths) Avg [mg/l] in period	Escape count in period
[redacted]																

	Year class	Site	Closing Date	Opening Count	Closing Count	Transfer in count in period	Transfer out count in period	Deviation count in period	Deviation percent in period	Harvested count (incl discards) in period	Gross harvested biomass, incl. discards [lb] in period	Gross harvested average weight [lb] in period	Culling count in period	Mortality count in period	Mortality count Transport in period	Mortality count Predator in period
Unit: 08	2015	Hope Island	28-Dec-15													
	2015	Hope Island	29-Dec-15													
	2015	Hope Island	30-Dec-15													
	2015	Hope Island	31-Dec-15													
	2015	Hope Island	01-Jan-16													
	2015	Hope Island	02-Jan-16													
	2015	Hope Island	03-Jan-16													
	2015	Hope Island	04-Jan-16													
	2015	Hope Island	05-Jan-16													
	2015	Hope Island	06-Jan-16													
	2015	Hope Island	07-Jan-16													
	2015	Hope Island	08-Jan-16													
	2015	Hope Island	09-Jan-16													
	2015	Hope Island	10-Jan-16													
	2015	Hope Island	11-Jan-16													
	2015	Hope Island	12-Jan-16													
	2015	Hope Island	13-Jan-16													
	2015	Hope Island	14-Jan-16													
	2015	Hope Island	15-Jan-16													
	2015	Hope Island	16-Jan-16													
	2015	Hope Island	17-Jan-16													
	2015	Hope Island	18-Jan-16													
	2015	Hope Island	19-Jan-16													
	2015	Hope Island	20-Jan-16													
	2015	Hope Island	21-Jan-16													
	2015	Hope Island	22-Jan-16													
	2015	Hope Island	23-Jan-16													
	2015	Hope Island	24-Jan-16													
	2015	Hope Island	25-Jan-16													
	2015	Hope Island	26-Jan-16													
	2015	Hope Island	27-Jan-16													
	2015	Hope Island	28-Jan-16													
	2015	Hope Island	29-Jan-16													
	2015	Hope Island	30-Jan-16													
	2015	Hope Island	31-Jan-16													

Mortality count Disease - Yellow Mouth in period	Mortality count Unspecified in period	Mortality count Pinheads in period	Mortality count Disease - Vibriosis in period	Mortality count Deformed in period	Mortality count Grilse in period	Mortality count Mechanical Damage in period	Mortality count Disease - SRS (Salmon Rickettsial Septicaemia) in period	Mortality count Samples in period	Mortality count Low DO in period	Mortality count Disease - Furunculosis in period	Mortality count Gill Damage in period	Mortality count Grading Damage in period	Mortality count Disease - BKD (Bacterial Kidney Disease) in period	Temperature (all depths) Avg [°C] in period	Oxygen (all depths) Avg [mg/l] in period	Escape count in period
[redacted]																

	Year class	Site	Closing Date	Opening Count	Closing Count	Transfer in count in period	Transfer out count in period	Deviation count in period	Deviation percent in period	Harvested count (incl discards) in period	Gross harvested biomass, incl. discards [lb] in period	Gross harvested average weight [lb] in period	Culling count in period	Mortality count in period	Mortality count Transport in period	Mortality count Predator in period
Unit: 09	2015	Hope Island	28-Dec-15	[redacted]												
	2015	Hope Island	29-Dec-15													
	2015	Hope Island	30-Dec-15													
	2015	Hope Island	31-Dec-15													
	2015	Hope Island	01-Jan-16													
	2015	Hope Island	02-Jan-16													
	2015	Hope Island	03-Jan-16													
	2015	Hope Island	04-Jan-16													
	2015	Hope Island	05-Jan-16													
	2015	Hope Island	06-Jan-16													
	2015	Hope Island	07-Jan-16													
	2015	Hope Island	08-Jan-16													
	2015	Hope Island	09-Jan-16													
	2015	Hope Island	10-Jan-16													
	2015	Hope Island	11-Jan-16													
	2015	Hope Island	12-Jan-16													
	2015	Hope Island	13-Jan-16													
	2015	Hope Island	14-Jan-16													
	2015	Hope Island	15-Jan-16													
	2015	Hope Island	16-Jan-16													
	2015	Hope Island	17-Jan-16													
	2015	Hope Island	18-Jan-16													
	2015	Hope Island	19-Jan-16													
	2015	Hope Island	20-Jan-16													
	2015	Hope Island	21-Jan-16													
	2015	Hope Island	22-Jan-16													
	2015	Hope Island	23-Jan-16													
	2015	Hope Island	24-Jan-16													
	2015	Hope Island	25-Jan-16													
	2015	Hope Island	26-Jan-16													
	2015	Hope Island	27-Jan-16													
	2015	Hope Island	28-Jan-16													
	2015	Hope Island	29-Jan-16													
	2015	Hope Island	30-Jan-16													
	2015	Hope Island	31-Jan-16													

Mortality count Disease - Yellow Mouth in period	Mortality count Unspecified in period	Mortality count Pinheads in period	Mortality count Disease - Vibriosis in period	Mortality count Deformed in period	Mortality count Grilse in period	Mortality count Mechanical Damage in period	Mortality count Disease - SRS (Salmon Rickettsial Septicaemia) in period	Mortality count Samples in period	Mortality count Low DO in period	Mortality count Disease - Furunculosis in period	Mortality count Gill Damage in period	Mortality count Grading Damage in period	Mortality count Disease - BKD (Bacterial Kidney Disease) in period	Temperature (all depths) Avg [°C] in period	Oxygen (all depths) Avg [mg/l] in period	Escape count in period
[redacted]																

	Year class	Site	Closing Date	Opening Count	Closing Count	Transfer in count in period	Transfer out count in period	Deviation count in period	Deviation percent in period	Harvested count (incl discards) in period	Gross harvested biomass, incl. discards [lb] in period	Gross harvested average weight [lb] in period	Culling count in period	Mortality count in period	Mortality count Transport in period	Mortality count Predator in period
Unit: 10	2015	Hope Island	28-Dec-15	[redacted]												
	2015	Hope Island	29-Dec-15													
	2015	Hope Island	30-Dec-15													
	2015	Hope Island	31-Dec-15													
	2015	Hope Island	01-Jan-16													
	2015	Hope Island	02-Jan-16													
	2015	Hope Island	03-Jan-16													
	2015	Hope Island	04-Jan-16													
	2015	Hope Island	05-Jan-16													
	2015	Hope Island	06-Jan-16													
	2015	Hope Island	07-Jan-16													
	2015	Hope Island	08-Jan-16													
	2015	Hope Island	09-Jan-16													
	2015	Hope Island	10-Jan-16													
	2015	Hope Island	11-Jan-16													
	2015	Hope Island	12-Jan-16													
	2015	Hope Island	13-Jan-16													
	2015	Hope Island	14-Jan-16													
	2015	Hope Island	15-Jan-16													
	2015	Hope Island	16-Jan-16													
	2015	Hope Island	17-Jan-16													
	2015	Hope Island	18-Jan-16													
	2015	Hope Island	19-Jan-16													
	2015	Hope Island	20-Jan-16													
	2015	Hope Island	21-Jan-16													
	2015	Hope Island	22-Jan-16													
	2015	Hope Island	23-Jan-16													
	2015	Hope Island	24-Jan-16													
	2015	Hope Island	25-Jan-16													
	2015	Hope Island	26-Jan-16													
	2015	Hope Island	27-Jan-16													
	2015	Hope Island	28-Jan-16													
	2015	Hope Island	29-Jan-16													
	2015	Hope Island	30-Jan-16													
	2015	Hope Island	31-Jan-16													

Mortality count Disease - Yellow Mouth in period	Mortality count Unspecified in period	Mortality count Pinheads in period	Mortality count Disease - Vibriosis in period	Mortality count Deformed in period	Mortality count Grilse in period	Mortality count Mechanical Damage in period	Mortality count Disease - SRS (Salmon Rickettsial Septicaemia) in period	Mortality count Samples in period	Mortality count Low DO in period	Mortality count Disease - Furunculosis in period	Mortality count Gill Damage in period	Mortality count Grading Damage in period	Mortality count Disease - BKD (Bacterial Kidney Disease) in period	Temperature (all depths) Avg [°C] in period	Oxygen (all depths) Avg [mg/l] in period	Escape count in period
[redacted]																

Exhibit 2

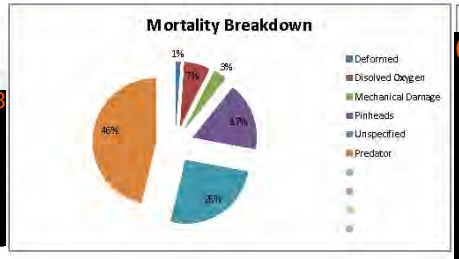
Hope Island Weekly Report
12/28/15-1/3/16

Unit	Accumulated input count	Average weight at input [g]	Accumulated input biomass [kg]	Opening count	Opening average weight	Opening biomass [kg]	Mortality count	Mortality rate [%]	Acc. mortality	Acc. survival rate [%]
01	CONFIDENTIAL- 17CV01708									
02										
03										
04										
05										
06										
07										
08										
09										
10										

Unit	Closing count	Closing average weight [g]	Closing biomass [kg]	Closing real density [kg/m³]	Deviation ; # of fish	Deviation in period, # of fish [%]	Culled count in period	Feed used in period [kg]	SFR in period	Calc. feed use in period [kg]	Economical FCR in period	Acc. economical FCR (incl.	Gross growth [%]	SGR in period	TGC in period	Accumulated TGC	Avg. temperature [°C]	Dynamic Red L	0	0
01	CONFIDENTIAL- 17CV01708																			
02																				
03																				
04																				
05																				
06																				
07																				
08																				
09																				
10																				
0.00																				

Mortality

Unit	Mortality count	Mortality rate [%]	Acc. mortality rate [%]	Acc. survival rate [%]
01	CONFIDENTIAL- 17CV01708			
02				
03				
04				
05				
06				
07				
08				
09				
10				



Mortality Breakdown By Cause Per Pen

CONFIDENTIAL- 17CV01708

We continued to have minor predation issues in pen 10 at the beginning of the week , which we resolved immediately. No signs of predation at the end of the week

Feeding

Unit	Feed used in period [kg]	Closing average weight [g]	SFR in period	Calc. feed use in period [kg]	Economical FCR in period	Acc. economical FCR (incl.	Previous Week SFR Comparison %
01	CONFIDENTIAL- 17CV01708						
02							
03							
04							
05							
06							
07							
08							
09							
10							

This week SFR

CONFIDENTIAL- 17CV01708

Last week SFR

CONFIDENTIAL- 17CV01708

All feed rates are up! Fish are doing very well after doing maitenance on the pred and rearing nets

Pen	SFR
Pen 1	CONFID
Pen 2	
Pen 3	
Pen 4	
Pen 5	
Pen 6	
Pen 7	
Pen 8	
Pen 9	
Pen 10	

Stock Status

Unit	Closing count	Closing average weight [g]	Closing biomass [kg]	Closing real density [kg/m³]	TGC in period
	CONFIDENTIAL- 17CV01708				

	Closing Avgas Wt.	Opening Avg Wt.	% Growth

Pen	SFR in period	Last Week SFR
01	CONFIDENTIAL- 17CV01708	
02		
03		
04		
05		
06		

CONFIDENTIAL- 17CV01708

Fish looking good, no issues to report

Environment

	12/28/15-1/3/15			
Temp	8.1			
Oxygen Average	7.3			
Oxygen Max	8.2			
Oxygen Min	6.5			

Enviromentals holding pretty steady, D.O.'s are high and the water is colr

Summary

Electrical finished
Diving on Pred net
Lights installed
General Duties
Feed rates going up!
Had a few hole in pred net after heavy winds, working on pred main
Rearing net maint.
HAPPY NEW YEAR!!!!

Great

Electrical finished
DO Consistently high
Feed rates up!
Buttoning up pred
Lights are on!

Disappointing

Predation at the beginning of the week

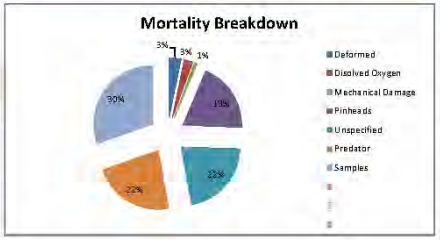
Hope Island Weekly Report
1/4-1/10/16

Unit	Accumulated input count	Average weight at input [g]	Accumulated input biomass [kg]	Opening count	Opening average weight	Opening biomass [kg]	Mortality count	Mortality rate [%]	Acc. mortality	Acc. survival rate [%]
01	CONFIDENTIAL- 17CV01708									
02										
03										
04										
05										
06										
07										
08										
09										
10										

Unit	Closing count	Closing average weight [g]	Closing biomass [kg]	Closing real density [kg/m³]	Deviation, # of fish	Deviation in period, # of fish [%]	Culled count in period	Feed used in period [kg]	SFR in period	Calc. feed use in period [kg]	Economical FCR in period	Acc. economical FCR (incl.	Gross growth [%]	SGR in period	TGC in period	Accumulated TGC	Avg. temperature [°C]	Dynamic Red L	0	0
01	CONFIDENTIAL- 17CV01708																			
02																				
03																				
04																				
05																				
06																				
07																				
08																				
09																				
10																				
	0.00																			

Mortality

Unit	Mortality count	Mortality rate [%]	Acc. mortality rate [%]	Acc. survival rate [%]
01	CONFIDENTIAL- 17CV01708			
02				
03				
04				
05				
06				
07				
08				
09				
10				



Mortality Breakdown By Cause Per Pen

CONFIDENTIAL- 17CV01708

Some sample mortality
Predation Pen 10: found small hole at casings on Pred net

Feeding

Unit	Feed used in period [kg]	Closing average weight [g]	SFR in period	Calc. feed use in period [kg]	Economical FCR in period	Acc. economical FCR (incl.	Previous Week SFR Comparison %
01	CONFIDENTIAL- 17CV01708						
02							
03							
04							
05							
06							
07							
08							
09							
10							

This week SFR

CONFIDENTIAL- 17CV01708

Last week SFR

CONFIDENTIAL- 17CV01708

Feed rates up 5% from last week, good tides for feeding

Pen	SFR in period	Last Week SFR
01	CONFIDENTIAL- 17CV01708	
02		
03		
04		
05		
06		
07		
08		
09		
10		

Pen	SFR
Pen 1	CONFIDEN
Pen 2	
Pen 3	
Pen 4	
Pen 5	
Pen 6	
Pen 7	
Pen 8	
Pen 9	
Pen 10	

Stock Status

Unit	Closing count	Closing average weight [g]	Closing biomass [kg]	Closing real density [kg/m³]	TGC in period
01	CONFIDENTIAL- 17CV01708				
02					
03					
04					
05					
06					
07					
08					

Closing Avgas Wt.	Opening Avg Wt.	% Growth
2,527.80	2,480.30	2

25	CONFIDENTIAL- 17CV01708
10	
0.01	

Samples:

	F/T	Actual	Variance	Condition F.	CV%	Mature%
Pen 1	CONFIDENTIAL- 17CV01708					
Pen 2						
Pen 3						
Pen 4						
Pen 6						

Environment

	1/4/1/10/16				
Temp	8.8				
Oxygen Average	8.7				
Oxygen Max	7.6				
Oxygen Min	5.8				

Looking good temp up a few degrees from last week

Summary

All Lights on
Diving on Pred rail
Samples
General Duties

Great

Good look at fish
Tides

Disappointing

Predation at the beginning of the week

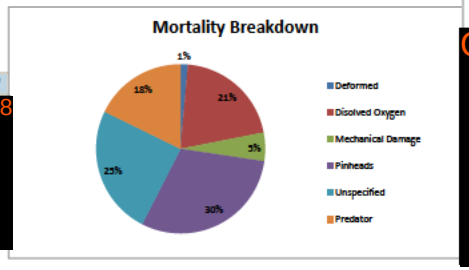
Hope Island Weekly Report
1/11-1/17/16

Unit	Accumulated Input count	Average weight at nput [g]	Accumu ated nput biomass [kg]	Opening count	Open ng average weight	Opening b omass [kg]	Mortality count	Mortality rate [%]	Acc. mortality	Acc. survival rate [%]
01	CONFIDENTIAL- 17CV01708									
02										
03										
04										
05										
06										
07										
08										
09										
10										

Unit	Closing count	C osing average we ght [g]	C osing biomass [kg]	Closing real dens ty [kg/m^3]	Dev ation fish	# of	Deviation in per od # of fish [%]	Culled count in period	Feed used n per od [kg]	SFR n period	Calc. feed use in per od [kg]	Economical FCR n per od	Acc. economical FCR (ncl. d scards)	Gross growth [%]	SGR in period	GC in period	Accumulate d TGC	Avg. temperature [°C]	Dynamic Red L	0	0
01	CONFIDENTIAL- 17CV01708																				
02																					
03																					
04																					
05																					
06																					
07																					
08																					
09																					
10																					
0.00																					

Mortality

Unit	Mortality count	Mortality rate [%]	Acc. mortality rate [%]	Acc. survival rate [%]
01	CONFIDENTIAL- 17CV01708			
02				
03				
04				
05				
06				
07				
08				
09				
10				



By Cause Per Pen

CONFIDENTIAL- 17CV01708

Mortality Low
Very Light predation.

Feeding

Unit	Feed used n per od [kg]	C osing average we ght [g]	SFR in period	Ca c. feed use n per od [kg]	Economical FCR n per od	Acc. economical FCR (ncl. d scards)	Prev ous Week SFR Compar son %
01	CONFIDENTIAL- 17CV01708						
02							
03							
04							
05							
06							
07							
08							
09							
10							

This week SFR

CONFIDENTIAL- 17CV01708

Last week SFR

CONFIDENTIAL- 17CV01708

Feeding down slightly.
Seals swimming around bothering fish.

Pen	SFR
Pen 1	CONFIDEN
Pen 2	
Pen 3	
Pen 4	
Pen 5	
Pen 6	
Pen 7	
Pen 8	
Pen 9	
Pen 10	

Stock Status

Unit	Closing count	C osing average we ght [g]	C osing biomass [kg]	Closing real dens ty [kg/m^3]	TGC in period
	CONFIDENTIAL- 17CV01708				

Closing Avgas Wt.	Opening Avg Wt.	% Growth

Pen	SFR in period	Last Week SFR
01	CONFIDENTIAL- 17CV01708	
02		
03		
04		
05		
06		

CONFIDENTIAL- 17CV01708

Fish look great! Nice fat and healthy
We started a slightly less aggressive feeding meal plan, after looking at the condition factors from samples

Environment

	1/11-1/17/16				
Temp	8.8				
Oxygen Average	7				
Oxygen Max	8.3				
Oxygen Min	6.1				

Looking good temp up a few degrees from last week

Summary

All Lights on
Diving on Pred net
Installed guard rails on bridges to system
MPI
General Duties

Great

Fish are doing great!
New saftey improvments

Disappointing

Predation at the beginning of the week

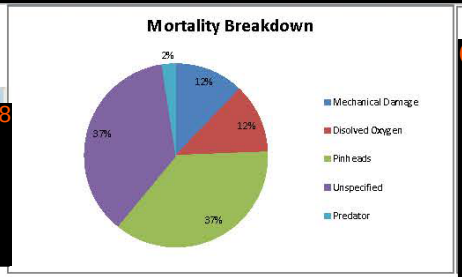
Hope Island Weekly Report
1/18-1/24/16

Unit	Accumulated input count	Average weight at input [g]	Accumulated input biomass [kg]	Opening count	Opening average weight	Opening biomass [kg]	Mortality count	Mortality rate [%]	Acc. mortality	Acc. survival rate [%]
01	CONFIDENTIAL- 17CV01708									
02										
03										
04										
05										
06										
07										
08										
09										
10										

Unit	Closing count	Closing average weight [g]	Closing biomass [kg]	Closing real density [kg/m³]	Deviation, # of fish	Deviation in period, # of fish [%]	Culled count in period	Feed used in period [kg]	SFR in period	Calc. feed use in period [kg]	Economical FCR in period	Acc. economical FCR (incl. discards)	Gross growth [%]	SGR in period	TGC in period	Accumulated TGC	Avg. temperature [°C]	Dynamic Red L	0	0
01	CONFIDENTIAL- 17CV01708																			
02																				
03																				
04																				
05																				
06																				
07																				
08																				
09																				
10																				
0.4																				

Mortality

Unit	Mortality count	Mortality rate [%]	Acc. mortality rate [%]	Acc. survival rate [%]
01	CONFIDENTIAL- 17CV01708			
02				
03				
04				
05				
06				
07				
08				
09				
10				



By Cause Per Pen

CONFIDENTIAL- 17CV01708

Mortality Low
Very Light predation.

Feeding

Unit	Feed used in period [kg]	Closing average weight [g]	SFR in period	Calc. feed use in period [kg]	Economical FCR in period	Acc. economical FCR (incl.	Previous Week SFR Comparison %
01	CONFIDENTIAL- 17CV01708						
02							
03							
04							
05							
06							
07							
08							
09							
10							

This week SFR

CONFIDENTIAL- 17CV01708

Last week SFR

CONFIDENTIAL- 17CV01708

Feeding going well
Pen 10 was being harrased by seals

Pen	SFR
Pen 1	CONFIDEN
Pen 2	
Pen 3	
Pen 4	
Pen 5	
Pen 6	
Pen 7	
Pen 8	
Pen 9	
Pen 10	

Stock Status

Unit	Closing count	Closing average weight [g]	Closing biomass [kg]	Closing real density [kg/m³]	TGC in period
	CONFIDENTIAL- 17CV01708				

	Closing Avgas Wt.	Opening Avg Wt.	% Growth

Pen	SFR in period	Last Week SFR
01	CONFIDENTIAL- 17CV01708	
02		
03		
04		
05		
06		

01	
02	
03	
04	
05	
06	
07	
08	
09	
10	
0.00	

Fish look great! Nice fat and healthy

We started a slight [illegible] after looking at the positive factors from samples

Samples:

Pen 2
Pen 5
Pen 7

All samples above [illegible]

Environment

	1/18-1/24/16				
Temp	8.5				
Oxygen Average	7.4				
Oxygen Max	8.4				
Oxygen Min	6.3				

Better tides this week

Lots of rain

Summary

All Lights on

Diving on Pred net

Installed guard rails on bridges to system

MPI

General Duties

Samples

Great

Fish are doing great!

New saftey improvments

Disappointing

Predation at the beginning of the week very ligh

Hope Island Weekly Report
1/25-1/31/16

Unit	Accumulated input count	Average weight at input [g]	Accumulated input biomass [kg]	Opening count	Opening average weight	Opening biomass [kg]	Mortality count	Mortality rate [%]	Acc. mortality	Acc. survival rate [%]
01	CONFIDENTIAL- 17CV01708									
02										
03										
04										
05										
06										
07										
08										
09										
10										

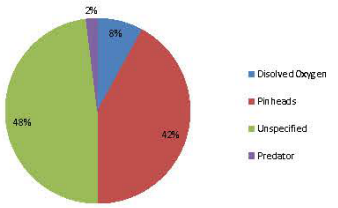
Unit	Closing count	Closing average weight [g]	Closing biomass [kg]	Closing real density [kg/m³]	Deviation, # of fish	Deviation in period, # of fish [%]	Culled count in period	Feed used in period [kg]	SFR in period	Calc. feed use in period [kg]	Economical FCR in period	Acc. economical FCR (incl.	Gross growth [%]	SGR in period	TGC in period	Accumulated TGC	Avg. temperature [°C]	Dynamic Red L	0	0
01	CONFIDENTIAL- 17CV01708																			
02																				
03																				
04																				
05																				
06																				
07																				
08																				
09																				
10																				
0,00																				

Mortality

Unit	Mortality count	Mortality rate [%]	Acc. mortality rate [%]	Acc. survival rate [%]
01	CONFIDENTIAL- 17CV01708			
02				
03				
04				
05				
06				
07				
08				
09				
10				

Mortality Low

Mortality Breakdown



By Cause Per Pen

CONFIDENTIAL- 17CV01708

Feeding

Unit	Feed used in period [kg]	Closing average weight [g]	SFR in period	Calc. feed use in period [kg]	Economical FCR in period	Acc. economical FCR (incl.	Previous Week SFR Comparison %
01	CONFIDENTIAL- 17CV01708						
02							
03							
04							
05							
06							
07							
08							
09							
10							

This week SFR

CONFIDENTIAL- 17CV01708

Last week SFR

CONFIDENTIAL- 17CV01708

Feeding Challanging, strong tides throughout day.

Pen	SFR in period	Last Week SFR
01	CONFIDENTIAL- 17CV01708	
02		
03		
04		
05		
06		

Pen	SFR
Pen 1	CONFID
Pen 2	
Pen 3	
Pen 4	
Pen 5	
Pen 6	
Pen 7	
Pen 8	
Pen 9	
Pen 10	

Stock Status

Unit	Closing count	Closing average weight [g]	Closing biomass [kg]	Closing real density [kg/m³]	TGC in period
	CONFIDENTIAL- 17CV01708				

Closing Avg Wt.	Opening Avg Wt.	% Growth

CONFIDENTIAL- 17CV01708

01	CONFIDENTIAL- 17CV01708
02	
03	
04	
05	
06	
07	
08	
09	
10	
0.00	

Not the best samples out of 9 and 10, we are going to re-sample in middle of the month

Samples:

Pen 8	CONFIDENTIAL- 17CV01708
Pen 9	
Pen 10	

Environment

	1/25-1/31/16				
Temp	8.5				
Oxygen Average	7.4				
Oxygen Max	8.4				
Oxygen Min	6.3				

Strong tides throughout day,
Stormy with heavy rain
salinity low all week, water ver murky

Summary

All Lights on
MPI
General Duties
Samples

Great

Pen 8 sample

Disappointing

Stong currents all day
Stormy